

SACRAMENTO METROPOLITAN FIRE DISTRICT			
FIRE PREVENTION STANDARD			
STANDARD TITLE:	Installation of Sprinkler Systems		
STANDARD NUMBER:	1	EFFECTIVE DATE:	04/12/07
		REVISION DATE:	04/01/09

OBJECTIVE

To ensure that sprinkler plans submitted for review contain items necessary for approval prior to installation of systems in accordance with the 2002 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems* in any structure and the 2002 edition of NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes*. To provide a satisfactory level of life and property safety from fire considering the unique features of Sacramento and the requirements of the Sacramento Metropolitan Fire District.

This standard applies to all new or modified sprinkler systems in accordance with the 2002 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems* and the 2002 edition of NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes*. All individuals and companies who propose to engage in the installation or alteration of fire sprinkler systems are subject to the requirements of this standard and all other requirements of NFPA 13, *Standard for the Installation of Sprinkler Systems* and NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes*.

This standard outlines the procedure to be followed when submitting sprinkler plans and defines the District's requirements for sprinkler system installations that may be more restrictive or not included in existing codes and standards.

PROCEDURE

Procedures are numbered in accordance with NFPA 13 chapters. Chapter numbers missing from this document indicate direct application of that chapter of NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2002 edition or NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes*, 2002 edition.

Part One – Commercial Occupancies:

Chapter 6.3 – Aboveground Pipe and Tube

1. Sprinkler piping shall meet the minimum requirements of NFPA 13, *Standard for the Installation of Sprinkler Systems*, Table, 3-3.1 and shall be UL listed and FM approved. All pipe shall have a Corrosion Resistance Ratio (CRR) of 1.00 or greater per the UL listing and FM

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approval. Other types of pipe material may be approved for use provided they meet appropriate UL listing, FM approval and NFPA 13, *Standard for the Installation of Sprinkler Systems* criteria. The Fire District must approve the use of alternate pipe prior to installation.

2. Flexible type fire sprinkler connections are approved with prior approval from the Building Inspection Division having jurisdiction.

Chapter 6.7- Valves

1. The inspector's test valve may be installed in any location downstream of the water flow alarm.

Chapter 6.8 and 8.16 - Fire Department Connections

1. Fire department connections shall be visible, accessible, and installed on the address side of buildings in approved locations, and provided with metal caps and fasteners.
2. Fire department connections shall be located between 3 and 40 feet from an accessible fire hydrant. The fire department connection and hydrant shall be located on the same side of the access roadway.

Exception: The Chief may allow a greater distance between the hydrant and fire department connection, however the distance shall not exceed more than 150 feet. The intent of this exception is to allow the use of existing fire hydrants.

3. The 2-½ inch inlets for the fire department connection shall be located at 36 inches above finish grade.
4. Fire department connections shall be within 2 feet of the curb or back of walkways adjacent to a public street or approved fire access lane. When a back-flow device is used, the fire department connection shall be located on the system side of the back-flow device facing and within 15 feet of the public street or fire access lane.
5. Fire department connections shall be located free of interference from nearby objects including buildings, fences, posts, trees, etc., and in regard to overhead hazards such as transformers or transmission lines.

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6. Vehicle protection shall be provided for fire department connections subject to vehicular damage by approved barricades or a minimum of a six-inch curb.
7. The fire department connection shall serve only one building.

Exception: Mini-storage facilities and new public schools with multiple buildings located on one parcel may have one fire department connection.

8. Address numbers are required on the fire department connection to indicate the area or building served by the fire department connection. The address numbers shall be 2 inch black numbers on a white reflective background and be located on the "mud leg" of the fire department connection facing the public street or fire access lane.
9. Existing buildings with automatic sprinkler systems that are upgraded with the addition of 20% or more fire sprinklers in which the fire department connection does not conform to #1 and #2 above shall require the installation of a new fire department connection in accordance with this standard.
10. Sprinkler systems designed for a total combined water demand over 1,000 gallons per minute, determined by the sprinkler system and inside hose demand, shall be equipped with one 2-½ inch inlet per each 500 gallons per minute on a fire department connection manifold with a minimum of a 6 inch pipe and check valve.
11. Fire department connections located on a back-flow device shall be installed in a manner approved by the Fire District and the local water purveyor.

Chapter 7.3 - Pre-Action Systems and Deluge Systems

1. Pre-action systems are not approved for office or similar occupancies.
2. Pre-action systems shall default to a wet pipe system in the event of alarm system failure.

Exception: Normally unoccupied computer rooms constructed in accordance with NFPA Standard 75, *Standard for the Protection of Information Technology Equipment*.

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Chapter 8.4 - Residential Systems

- Hotels, Motels, Condominium, Town Houses and Apartment buildings shall be protected with sprinkler systems designed and installed in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*.

Exception: When required to be installed as an alternate means or method, condominiums and town houses Classified as R-3 occupancies may be protected with sprinkler systems designed and installed in accordance with NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes*.

- Residential type sprinklers are required within dwelling units.

Chapter 8.5 - Position, Location, Spacing and Use of Sprinklers

- Sprinklers shall not be placed in or below smoke vents or ridge vents.

Chapter 8.14 - Special Situations

- Attic spaces and areas above ceilings shall have automatic fire sprinkler protection regardless of construction type.
- Areas under computer room floors and in similar occupancies shall have automatic fire protection systems installed if wire or cable is to be installed within that space. Systems may be fire sprinklers, clean agent systems, carbon dioxide systems, Halon systems, or similar automatic extinguishment systems.

Exception: Spaces in which all wire and cable is concealed within conduit, covered non-combustible troughs, or non-combustible covered cable trays and no other combustible materials are present. However, a smoke detection system is required in accordance with NFPA 75, *Standard for the Protection of Information Technology Equipment*.

- Sprinklers shall not be installed at the top of noncombustible hoistways of passenger elevators with car enclosure materials that meet the requirements of ASME A17.1, *Safety Code for Elevators and Escalators*.

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Chapter 8.15 - Piping Installation

1. System riser shall be inside the fire control room constructed as follows:
 - A. Fire control room shall contain all fire sprinkler system risers, fire alarm control panels, spare sprinklers and wrench, and other fire equipment required by the Chief.
 - B. Fire control rooms shall be located within the building on an outside wall at a location approved by the Chief, and shall be provided with a means to access the room directly from the exterior with an approved door of minimum dimensions of 36"X80".
 - C. Durable signage shall be provided on the exterior side of the access door to identify the fire control room. The sign shall indicate "FIRE CONTROL ROOM" with 3" letters that contrast with their background.
 - D. A key shall be located within an approved high level Fire District Knox Company key box located adjacent to, and on the latch side of, the access door on the exterior of the building at six feet above the finished floor.
 - E. Fire control rooms shall have a minimum dimension of 5' and not be less than 35 square feet in usable area.
 - F. The fire sprinkler riser shall be located on the outside wall between 12" and 18" from that outside wall and at least 12" from any other wall.
 - G. The fire control room may contain other building service equipment. This other equipment shall not be within 3' in front of any fire equipment in the room.
2. In all new multi-family buildings (apartments, condominiums and town homes) the system riser shall be inside the fire control room constructed as follows:
 - A. Fire control room shall contain all fire sprinkler system risers, fire alarm control panels, spare sprinklers and wrench, and other fire equipment required by the Chief.

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- B. Fire control rooms shall be located within the building on an outside wall at a location approved by the Chief, and shall be provided with a means to access the room directly from the exterior with an approved door of minimum dimensions of 36"X80".
- C. Durable signage shall be provided on the exterior side of the access door to identify the fire control room. The sign shall indicate "FIRE CONTROL ROOM" with 3" letters that contrast with their background.
- D. A key shall be located within an approved high level Fire District Knox Company key box located adjacent to, and on the latch side of, the access door on the exterior of the building at six feet above the finished floor.
- E. Fire control rooms shall have a minimum dimension of 2' and not be less than 8 square feet in usable area.
- F. The fire sprinkler riser shall be located on the outside wall between 12" and 18" from that outside wall and at least 12" from any other wall.

Exception: Condominiums or town houses protected by systems designed and installed in accordance with NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes* or protected in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems* with separate control valves for each unit.

3. System Control Valves

- A. Control valves shall be an indicating type valve assembly. To comply with water quality requirements back flow protection shall be provided in accordance with local Water Purveyor standards. For a single sprinkler system, if OS&Y valves are used on this back flow prevention device, and are located above ground, these valves may be approved for use as the exterior sprinkler control valve. Underground gate valves are not acceptable for sprinkler system control valves. There shall not be any control valves located on a single sprinkler system riser.

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- B. All sprinkler system control valves shall be supervised with tamper switches that report to a central station alarm company and shall be locked in the fully open position with a non-hardened lock.
- C. Vehicle protection shall be provided for above ground control valves subject to vehicular damage by approved barricades or a minimum of a six-inch curb.
- D. Multi-floor buildings (three or more stories): Individual floor control valves shall be required for each floor, located within a rated stairway or in the fire control room. Floor control valves shall have a permanent sign identifying areas or systems controlled in ½" letters that contrast with their background and shall be permanently banded to the valve or permanently affixed to a wall adjacent to the valve.

Exception: Three story multi-family buildings.
- E. Sprinkler systems located in special hazard areas (i.e. spray booths, trash chutes, flammable liquid storage, etc.) shall have a separate locked and monitored indicating control valve.

Chapter 8.16 - System Attachments

1. An alarm bell shall be located on the address side of the building in an approved location readily visible from the street or roadway fronting the structure. Approved signs shall be legible and indicate, "SPRINKLER FIRE ALARM - CALL 911 IF RINGING" in accordance with N.F.P.A. 13, *Standard for the Installation of Sprinkler Systems*, Figure A-5-15.1.
2. Alarm bells shall provide a sound pressure level of a minimum 85db in accordance with UL Standard 464, *Audible Signal Appliances*.
3. Fire sprinkler systems shall be monitored in accordance with Fire Prevention Standard 2, *Fire Alarm Systems*.

Chapter 9.1 - Hangers

1. For all new sprinkler system installations, a completed copy of the Structural Attachment Compliance Letter (attachment 1) shall be provided upon plan submittal.

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Chapter 9.3 - Protection of Piping Against Damage Where Subject to Earthquakes

1. For all new sprinkler system installations, a completed copy of the Structural Attachment Compliance Letter (attachment 1) shall be provided upon plan submittal.

Chapter 11 - Design Approaches

1. Office buildings or portions of buildings used for office or similar use shall be designed in accordance with the following:
 - A. The system shall be designed as an Ordinary Hazard Group 1 density.
 - B. Upright sprinkler protection (attic areas) shall have a maximum protection area of 130 square feet per sprinkler unless a smaller protection area is required by Table 8.6.2.2.1(a).
 - C. No design area reduction for quick-response sprinklers shall be permitted for the shell building installation. A design area reduction for quick-response sprinklers shall be permitted for the ceiling areas of the tenant spaces.
 - D. All sprinklers on branch lines shall be provided with a tee and one-inch plugged outlets for future tenant improvements.
2. Retail buildings or portions of buildings used for retail or similar use without a specified occupant shall be designed in accordance with the following:
 - A. Buildings with a ceiling height not exceeding 20 feet, the system shall be designed as an Ordinary Hazard Group 2 density, with a minimum design area of 3,000 square feet.
 - B. Buildings with a ceiling height exceeding 20 feet, the system shall be designed based on the specific use and storage array for that space. A detailed plan showing the storage array and commodity classification shall be provided at the time of plan submittal.
 - C. All sprinklers on branch lines shall be provided with a tee and one-inch plugged outlets for future tenant improvements.

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3. Warehouse buildings shall be designed in accordance with the following:
 - A. Warehouse buildings shall have a minimum design criteria of .495 GPM over 2,000 square feet.
 - B. Buildings without a specified occupant or tenant shall have a system designed to meet a minimum of .495 GPM over 2,000 square feet. Documentation shall be provided from the building owner, stating acknowledgement that this is a minimum design standard and that future occupants may require upgrades to the system.
 - C. Buildings with a specified occupant known to require a system that will exceed the minimum design criteria of .495 GPM over 2,000 square feet shall have a system designed to meet the storage array and commodity classification for that space. A detailed plan showing the storage array and commodity classification shall be provided at the time of plan submittal.

Chapter 13.4 - Spray Application Using Flammable and Combustible Materials

1. Spray booths shall have a separate monitored control valve and drain.
2. Hydraulic calculations shall be based upon all sprinklers flowing simultaneously with density for an Extra Hazard Group 2 occupancy.
3. Sprinkler location:
 - A. In the spray area and plenum areas.
 - B. In exhaust stack 6" above building roofline.
 - C. At the midpoint of offset ducts.
 - D. In horizontal ducts or plenums a maximum of 10 feet on center and 5 feet maximum from duct bends.
4. Sprinklers outside the spray booth at the ceiling level that have a spray pattern protecting the booth, shall be high-temperature rated (286°F).

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Chapter 14 - Plans and Calculations

1. Sprinkler plans for new installations, system upgrades, tenant improvements, etc. may be submitted at any of the following locations:
 - Sacramento Metropolitan Fire District
Fire Prevention Bureau
3012 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 942-3300
8:00 to 5:00
 - Sacramento County Building Inspection Division
Fire District Representative
4101 Branch Center Road
Sacramento, CA 95827
(916) 875-4118
9:30 to 12:30 and 1:00 to 4:00
 - Rancho Cordova City Hall
Fire Prevention Section
2729 Prospect Park Drive
Rancho Cordova, CA 95670
(916) 851-8937
8:00 to 12:00 and 1:00 to 5:00
2. A minimum of two sets of plans shall be submitted with one set retained by the Fire Prevention Bureau and the other returned to the contractor with comments or corrections required. The approved set marked "Job Set" shall be maintained at the site where the work is being performed.
3. A C-16 license holder shall install all sprinkler systems. The licensed company or a registered engineer that is licensed and authorized for fire protection shall prepare plans. License numbers shall be shown on all copies of plans.

Exception: 13D sprinkler systems designed and installed in accordance with owner-builder provisions of the California Business and Professions Code, Section 7026.12. A signed copy of the Home Owner Exemption Letter (attachment 2) shall be provided upon plan submittal.

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4. Installation shall not begin until plans have been approved.
5. All buildings requiring sprinkler protection shall have sprinklers throughout and no building may be partially protected with sprinklers without approval of the Fire Marshal.
6. Fees shall be paid at the time of submittal. Additional fees will be assessed for work performed prior to Fire District approval.

Chapter 14.4 - Hydraulic Calculation Procedures

1. All fire sprinkler plans shall be engineered to the results of a flow test from the nearest hydrant taken within the last 6 months and certified by the water purveyor. If the water purveyor cannot provide the flow test data, the Fire District, in accordance with the current fee schedule, may conduct a flow test, however the results will need to be verified in writing by the water purveyor.

Exception: Results provided by the water purveyor based on an approved water model. The Fire District may require a verification of the water model results.

Chapter 15 - Water Supplies

1. Underground piping shall be installed in accordance with NFPA 24, *Standard for the Installation of Private Fire Service Mains and Their Appurtenances* and the approved plans prepared by a civil engineer or piping installation contractor. The underground fire service installation contractor shall submit for review and approval a schematic drawing showing the part for part installation arrangement of the underground piping and appurtenances and a parts list with listing information for all parts prior to installation. A trench cross sectional detail shall be included on the plans.
2. Plastic piping approved for underground installations shall be PVC, C900, Class 150 or greater, and be listed for such use.
3. All runs of non-metallic water pipe shall have a No. 10 gauge solid soft drawn copper locator wire taped on top of the pipe to facilitate locating the pipe at a later date. The wire shall be stubbed up inside each valve box. Continuity test shall be conducted on each splice at all locations.

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4. Galvanized pipe is not approved for underground supply piping.
5. Non-metallic pipe shall not be used within five feet of a building.
6. Above grade valves for controlling the water supply for on-site fire hydrants and automatic fire sprinkler systems shall be electrically supervised.
7. All piping shall be laid in a six inch bed of sand or natural gravel not over one inch in diameter and have a twelve inch fill of sand or natural gravel not over one inch in diameter.
8. A strand of 3" wide non-detectable blue tape marked "Water" shall be placed 12 inches above all piping.
9. All sections of ductile iron pipe or ductile iron fittings shall be encased in either 8-mil linear low density (LLD) or 4-mil high-density, cross-laminated (HDCL) polyethylene sheets or tubes in accordance with American Water Works Association Standard C105/A21.5-05, *Polyethylene Encasement for Ductile-Iron Pipe Systems*. Any fasteners shall be made of low-alloy steel.
10. Concrete thrust blocks or other approved retaining, shall be installed at all locations where piping changes direction.
11. A 200-PSI hydrostatic pressure test shall be performed on all installed piping and appurtenances for a period of two hours. The piping shall be center-loaded during pressure testing with all joints, fittings and appurtenances uncovered. Failure to comply with this section will result in a test failure and the uncovering of the piping for a visual inspection and retesting.
12. A fire sprinkler underground supply piping flush, using a full pipe diameter discharge, shall be conducted and witnessed by the Fire District prior to connection to the above ground fire sprinkler system. The fire department connection piping shall also be flushed if connected to the fire sprinkler supply piping below grade. Piping shall be flushed until all foreign objects have been discharged and the water is clear.

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Chapter 15.2 - Fire Pumps

1. Fire pumps shall be installed in accordance with NFPA 20, *Standard for the Installation of Stationary Fire Pumps for Fire Protection*.
2. A fire pump shall serve only one building.
3. A fire pump shall have a by-pass line installed.
4. If a test loop is provided, listed control valves with normally closed tamper switches or other approved tamper switches shall be installed. In addition to the test loop, a method of flowing water every three years in accordance with the latest edition of NFPA 25, *Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems* shall be provided.
5. Fire pumps shall be maintained in accordance with the applicable provisions of NFPA 25, *Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems*.
6. A licensed C-16 contractor shall perform all weekly testing of fire pumps.

Exception: A qualified representative of the owner, approved by the Fire District.

7. Annual flow testing shall be performed by a California State licensed C-16 contractor, California State licensed Fire Protection Engineer, authorized fire pump manufacturer representative or a qualified representative of an approved insurance company providing fire loss coverage on the protected premises.
8. Written maintenance records shall be maintained by the building owner in accordance with the provisions found within NFPA 25, *Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems*. The reports shall be provided to the Fire District upon request.

Chapter 16 - System Acceptance

1. Inspections: A new fire sprinkler system requires the following inspections per system riser or floor that are included in the original

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permit fee. Fees for additional inspections shall be paid prior to scheduling the inspection.

- A. Weld inspection. Required for all piping with welded outlets prior to the piping being installed.
 - B. Installation inspection of all piping, sprinklers, hangers, seismic bracing, etc. and hydrostatic testing.
 - C. Final inspection including any previously noted corrections.
2. Completed copies of the contractor's material and test certificates for the underground and aboveground piping shall be provided.

Part Two - One- and Two- Family Dwellings and Manufactured Homes:

1. One and two family dwellings and mobile homes protected with sprinkler systems shall be designed and installed in accordance with the 2002 edition of NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes* and in accordance with Sacramento County Fire Marshals Standard #2.
2. Sprinkler systems in manufactured homes are the responsibility of the California Department of Housing and Community Development.
 - A. The seller of the manufactured home shall provide written verification that the site water supply is capable of providing the minimum flow (gallons per minute) and pressure (pounds per square inch), at the base of the fire sprinkler system riser, as indicated on the Fire Sprinkler Information Label, located in the water heater compartment. This documentation must be provided prior to the issuing of the Certificate of Release by the Fire District, which is required to obtain the building permit from the Sacramento County Building Inspection Division.
 - B. The seller of the manufactured home shall provide written verification that the system has been installed, tested and approved by the California Department of Housing and Community Development. This documentation must be provided prior to the

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final inspection and sign off by the Sacramento Metropolitan Fire District and Sacramento County Building Inspection Division.

3. The following information shall be provided for all residential fire sprinkler systems supplied from a well:
 - A. Provide a letter (well report) from the civil engineer or well contractor indicating that the well and tank have the capacity to provide the sprinkler demand (volume and pressure) for a minimum of a 10-minute duration.
 - B. Provide the storage capacity of the tank.
 - C. Provide the operating pressure range of the pump (well).
 - D. Provide the pressure setting for the air volume control valve on the tank.

Attachment 1 – Structural Attachment Compliance Letter
Attachment 2 - Home Owner Exemption Letter

The information below is to be completed and reproduced on the structural engineer's letterhead and included with the fire sprinkler plan review submittal package. Wet stamp and wet signature are required.

STRUCTURAL ATTACHMENT COMPLIANCE LETTER

Project Address: _____

Project Name: _____

This building has been designed for a fire sprinkler system with an equivalent weight of _____ pounds per square foot over the entire roof area. This load was used for the design of both gravity and seismic lateral resisting systems. Our review of the structural drawings by _____, dated _____, and fire sprinkler drawings by _____, dated _____, determined that the loading, methods of attachment of the hangers and seismic bracing and the location of the attachment for the hangers and seismic bracing are in conformance with structural design requirements, the truss manufacturer's requirements and the 2002 Edition of National Fire Protection Association Standard 13. The fire sprinkler contractor shall be responsible for installing the fire sprinkler system per the above-mentioned drawings.

Sincerely,

Signature: _____

Print Name: _____

Date: _____

Engineering Stamp:



Sacramento Metropolitan Fire District

3012 Gold Canal Drive · Rancho Cordova, CA 95670 · Phone (916) 942-3300 · Fax (916) 942-3400

DON METTE

Fire Chief
Don Mette

HOMEOWNER EXEMPTION LETTER

This fire sprinkler system is designed and will be installed in accordance with the owner-builder provisions of the California Business and Professions Code, Section 7026.12, which states:

The installation of a fire protection system, excluding an electrical alarm system, shall be performed only by a contractor holding a fire protection contractor classification as defined in the regulations of the board or by an owner-builder of an owner-occupied, single-family dwelling, if not more than two single-family dwellings on the same parcel are constructed within one year, plans are submitted to and approved by the city, county, or city and county authority, and the city, county, or city and county authority inspects and approves the installation.

Homeowner's Signature: _____

Homeowner's Printed Name: _____